

10

35

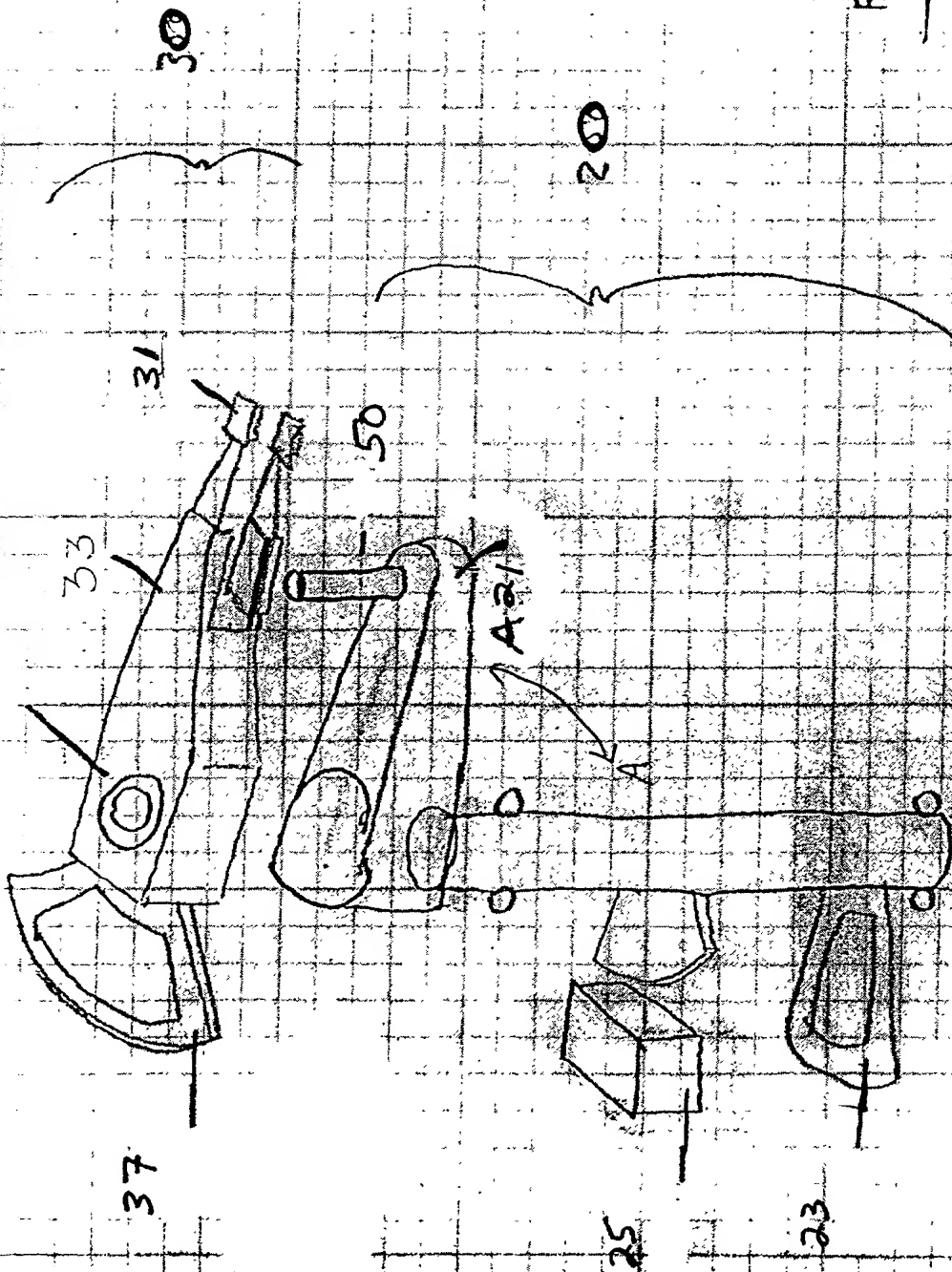


Fig. 1

Prior Art

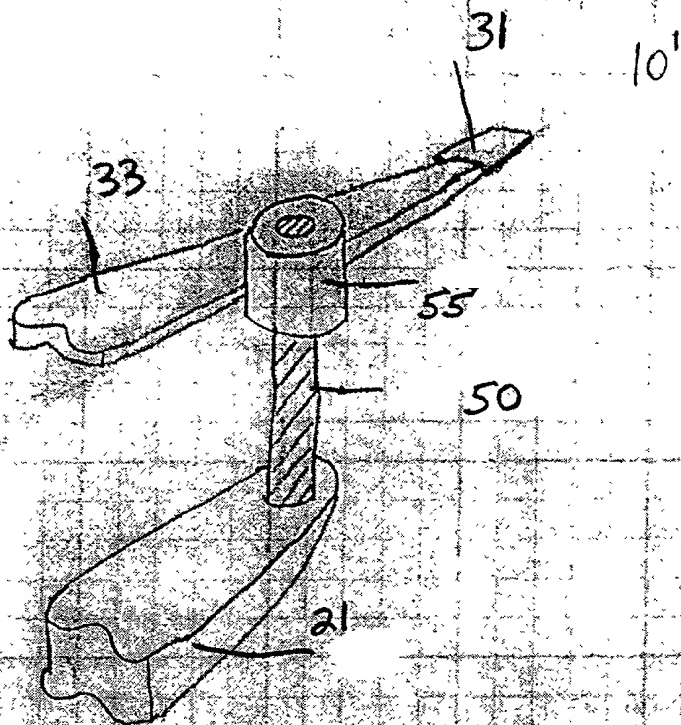


FIG. 2

PRIOR ART

Figure 3

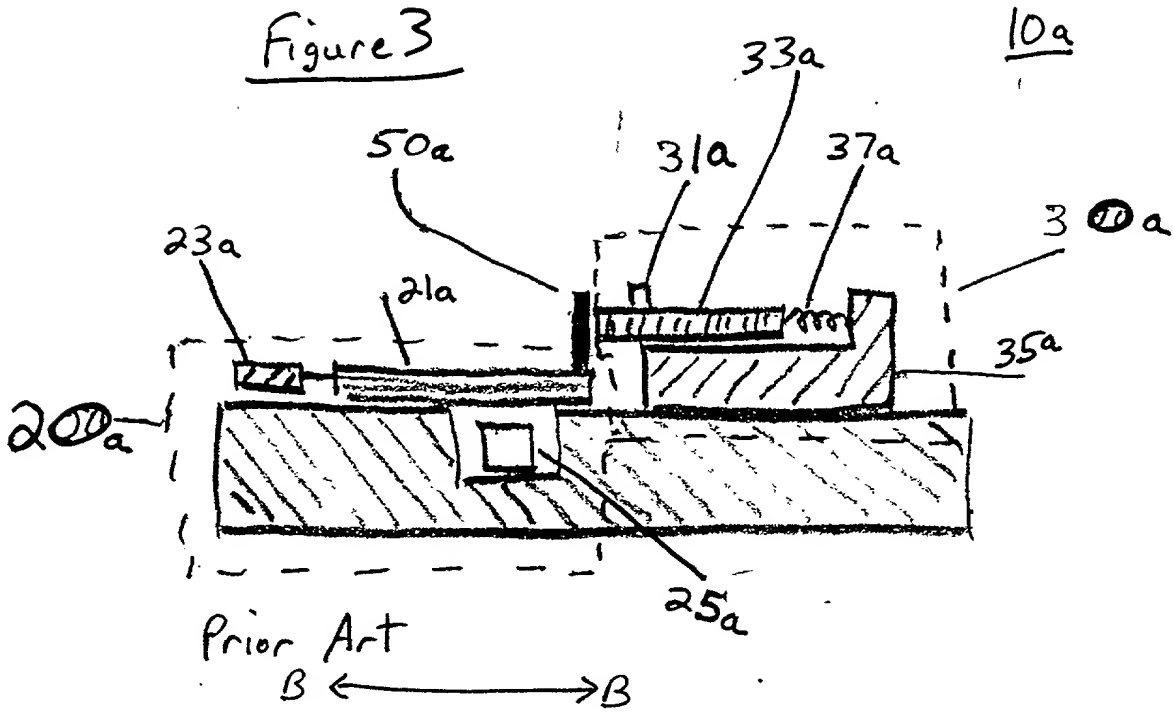
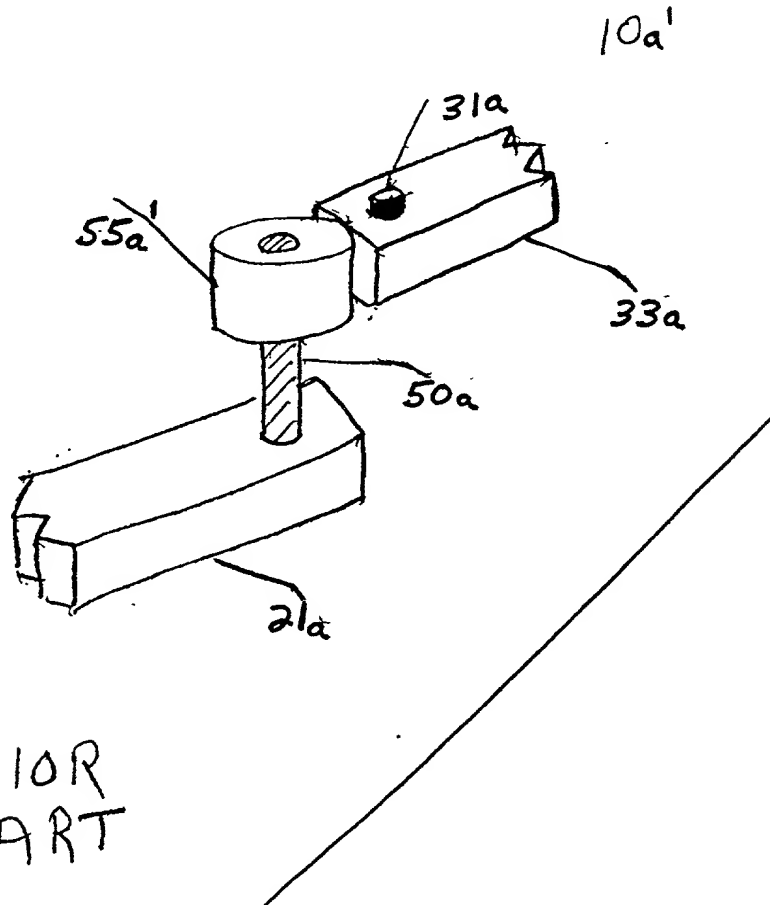


Fig 4



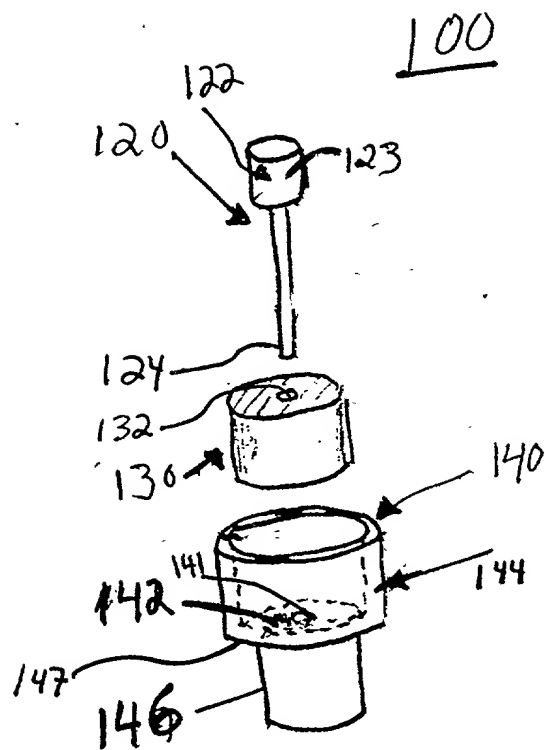


Figure 5

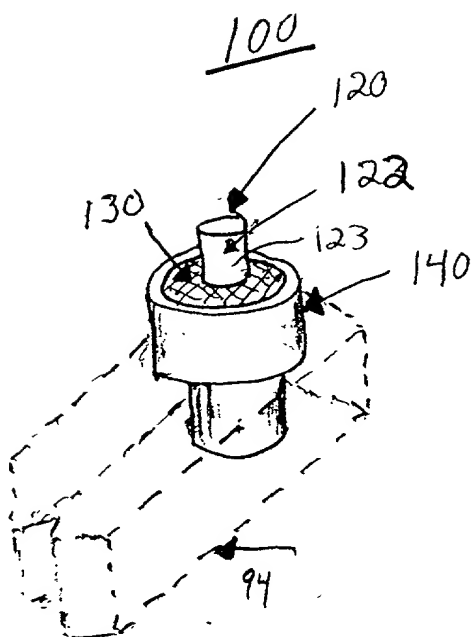


Figure 6

90

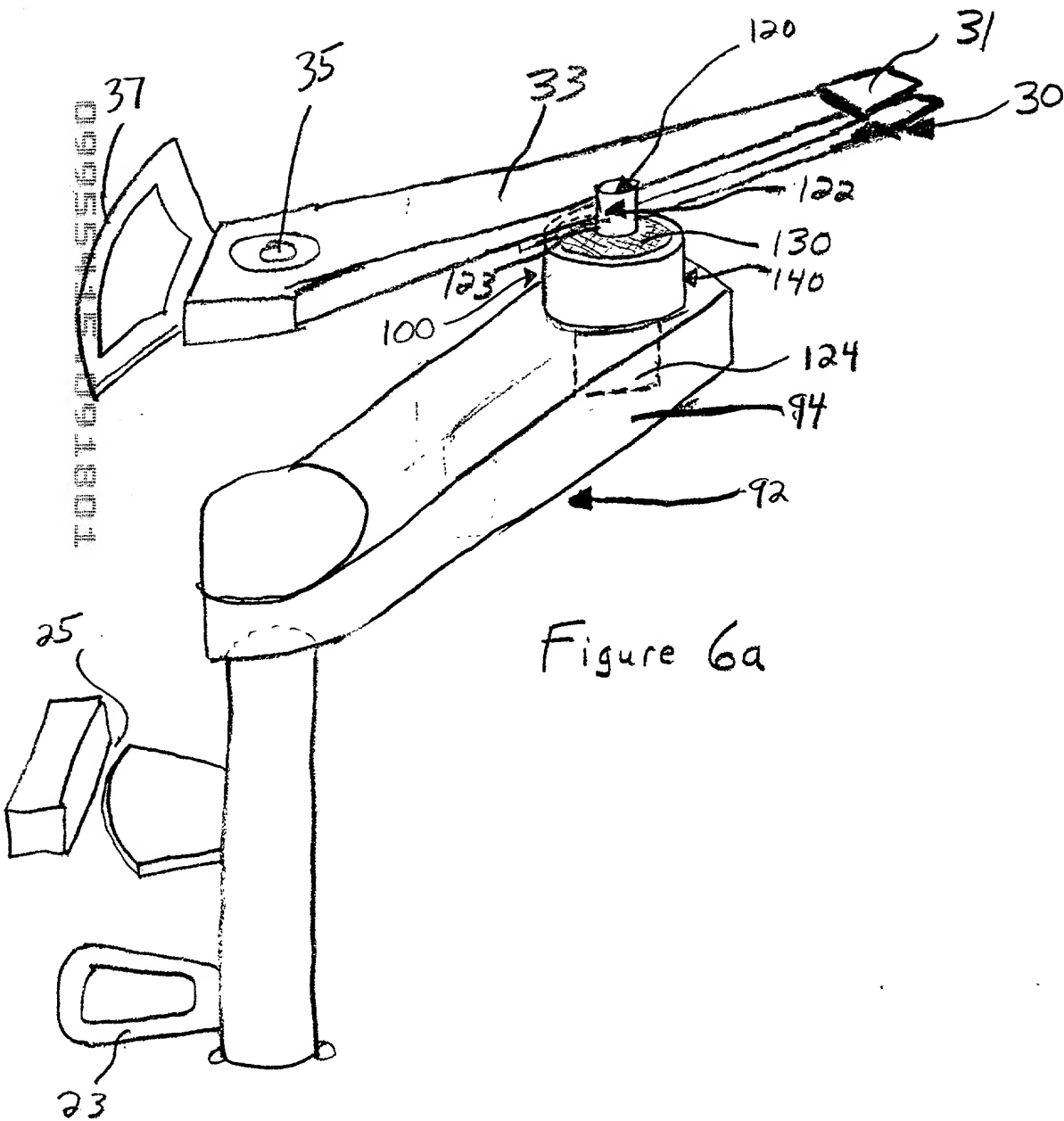


Figure 6a

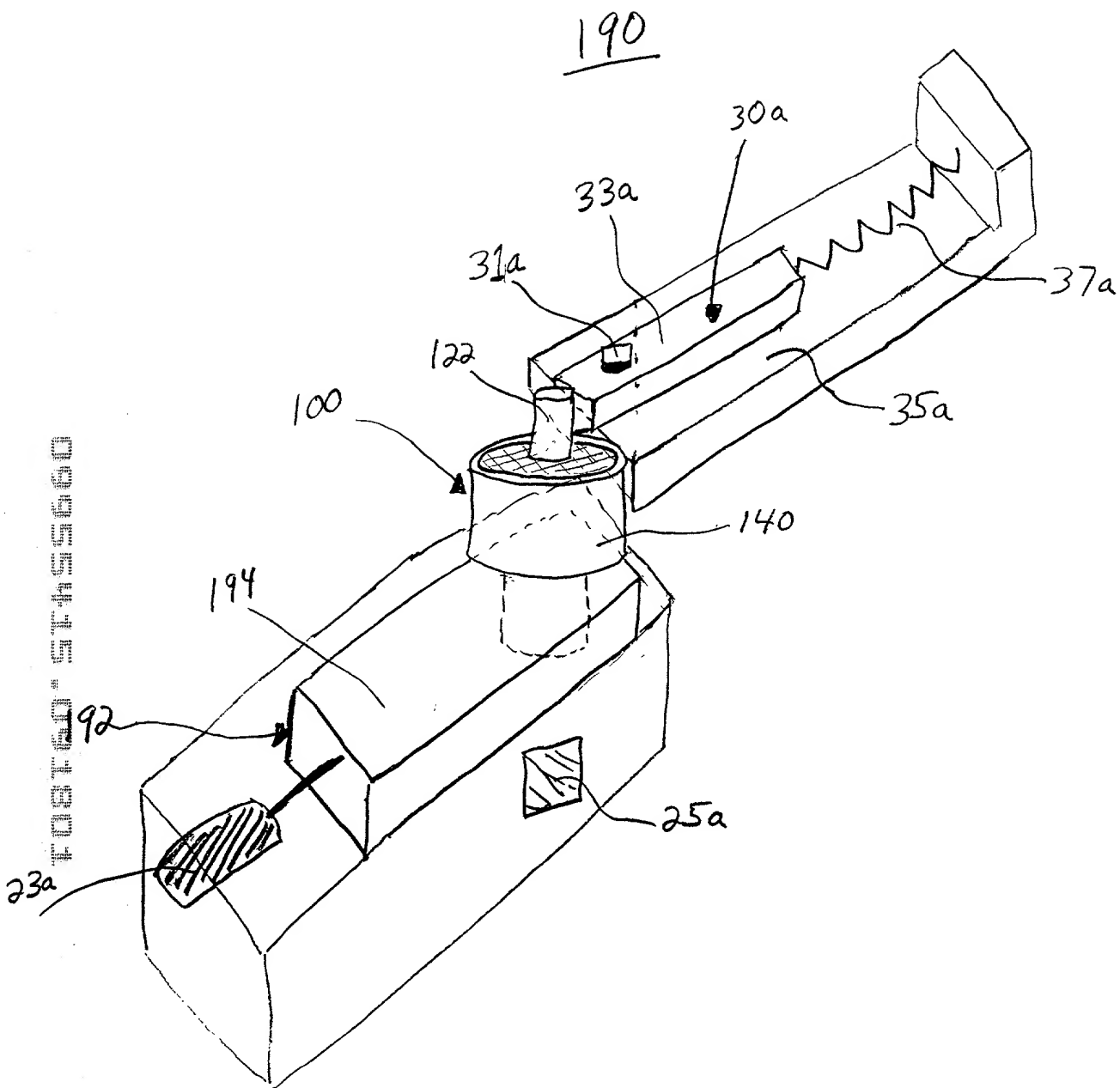


Figure 6b

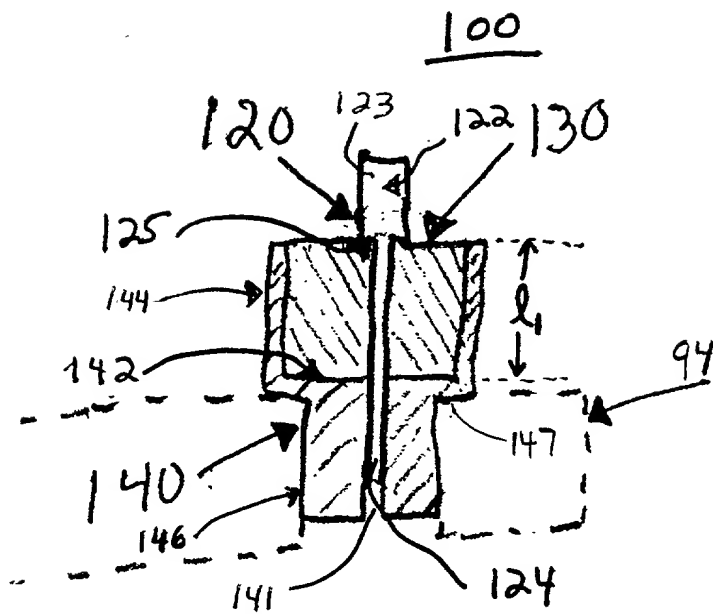


Figure 7

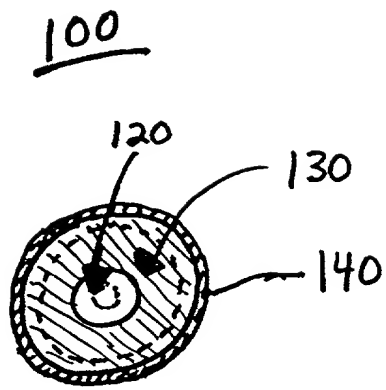
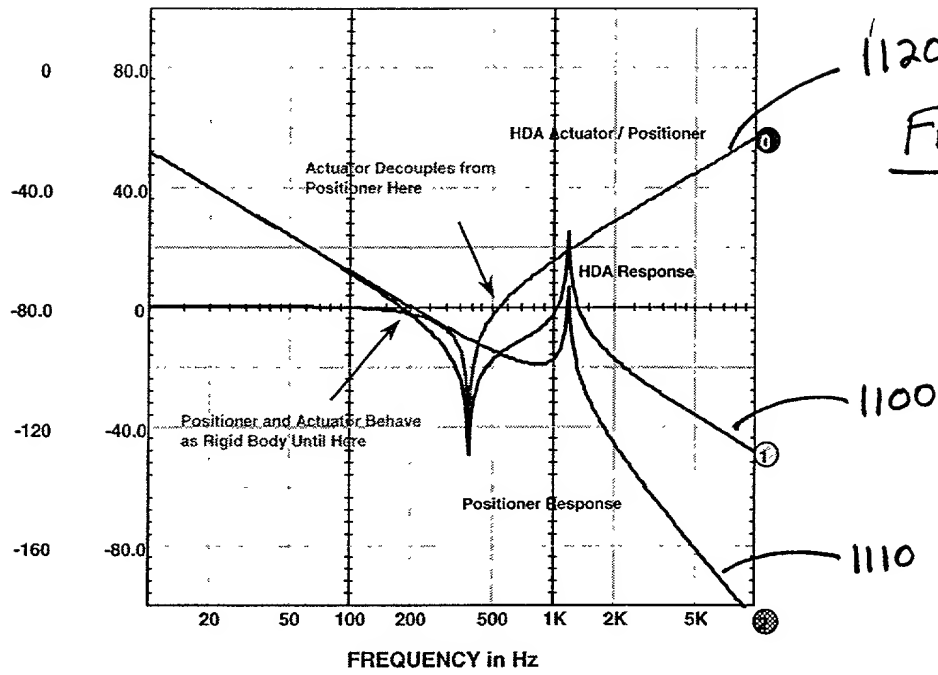


Figure 8

The diagram shows a two-mass mechanical system. A servo loop is connected to the first mass J_1 through a gain c_1 . The first mass J_1 is connected to the second mass J_2 through a spring k_{12} and a damper c_{12} . The output of the system is the displacement θ_2 of the second mass.

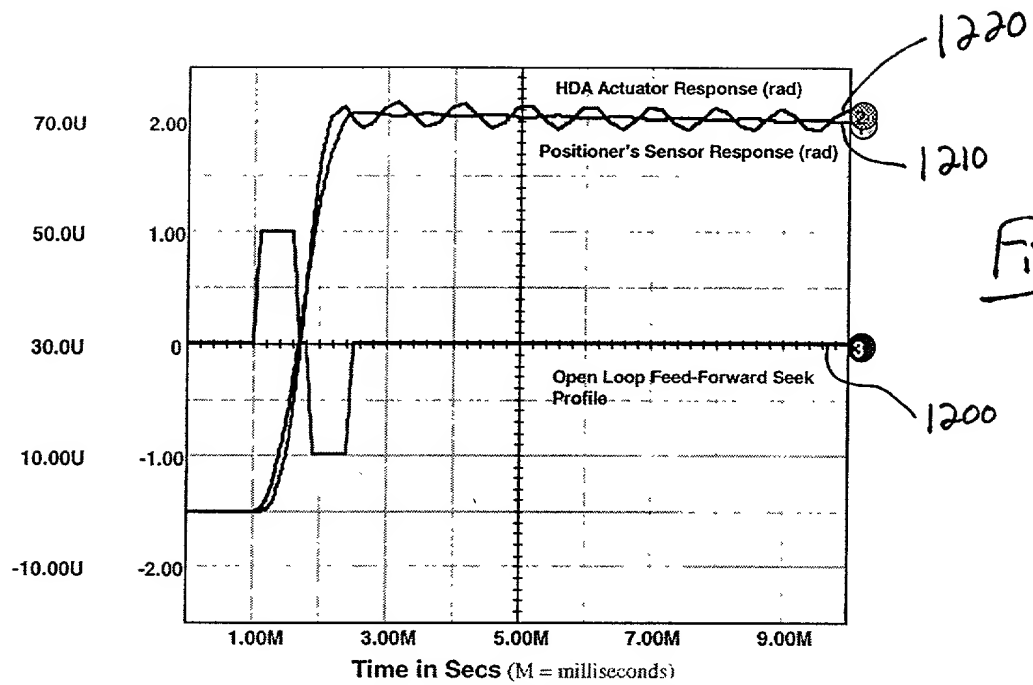
Figure 9

TOP SECRET



Bode Response with Torque Disturbance at HDA Actuator

095415.094201



Positioner and HDA Response with Bang-Bang
Seek Profile with Stiff Pin

Figure 11

FOOT 60" ST 455660

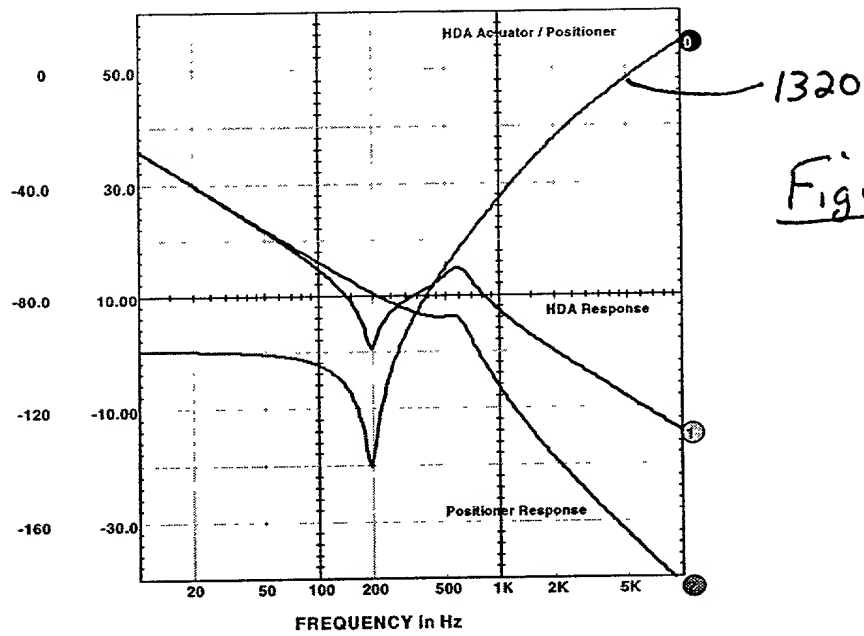


Figure 12

Response Due to Torque Disturbance at HDA Actuator
with Soft Material between HDA and Positioner

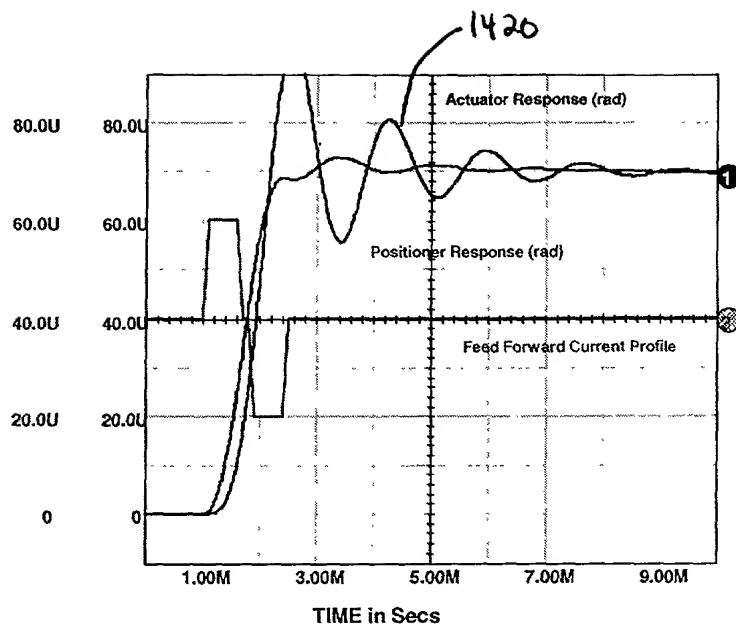
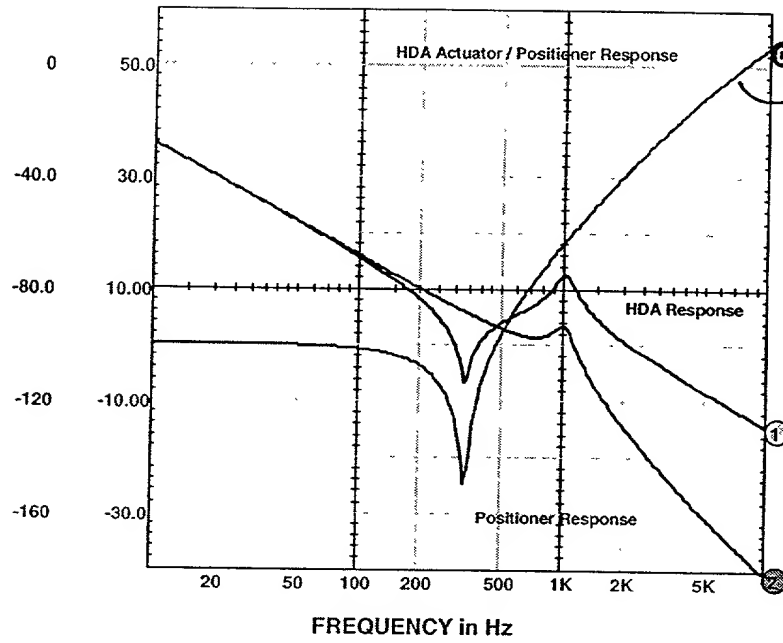


Figure 13

Actuator and Positioner Response for Standard Bang-Bang Seek with Soft Material

095545.091804
TOST60 ST45660

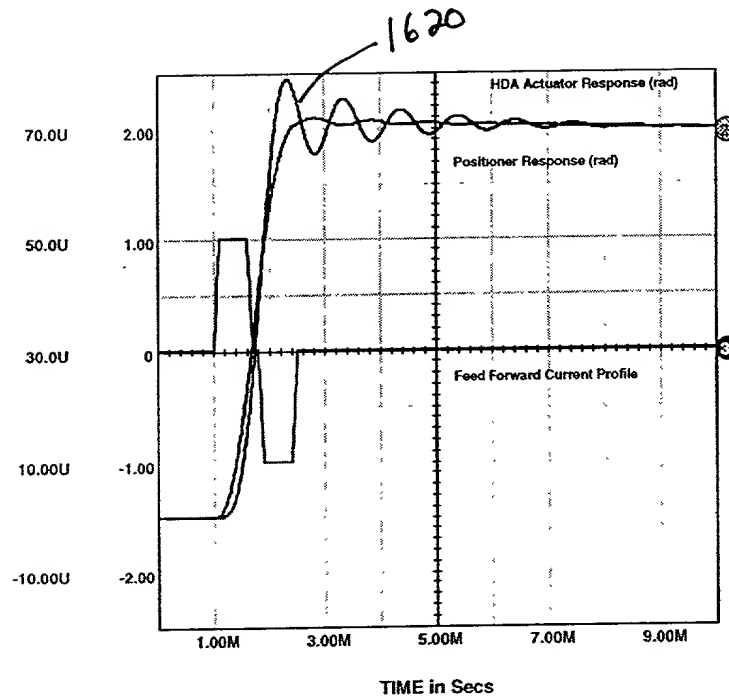
108T60-5T455660



Response for Torque Disturbance at Actuator with Eng Pin

Figure 14

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Positioner and Actuator Response with Engineered Pin

Figure 15

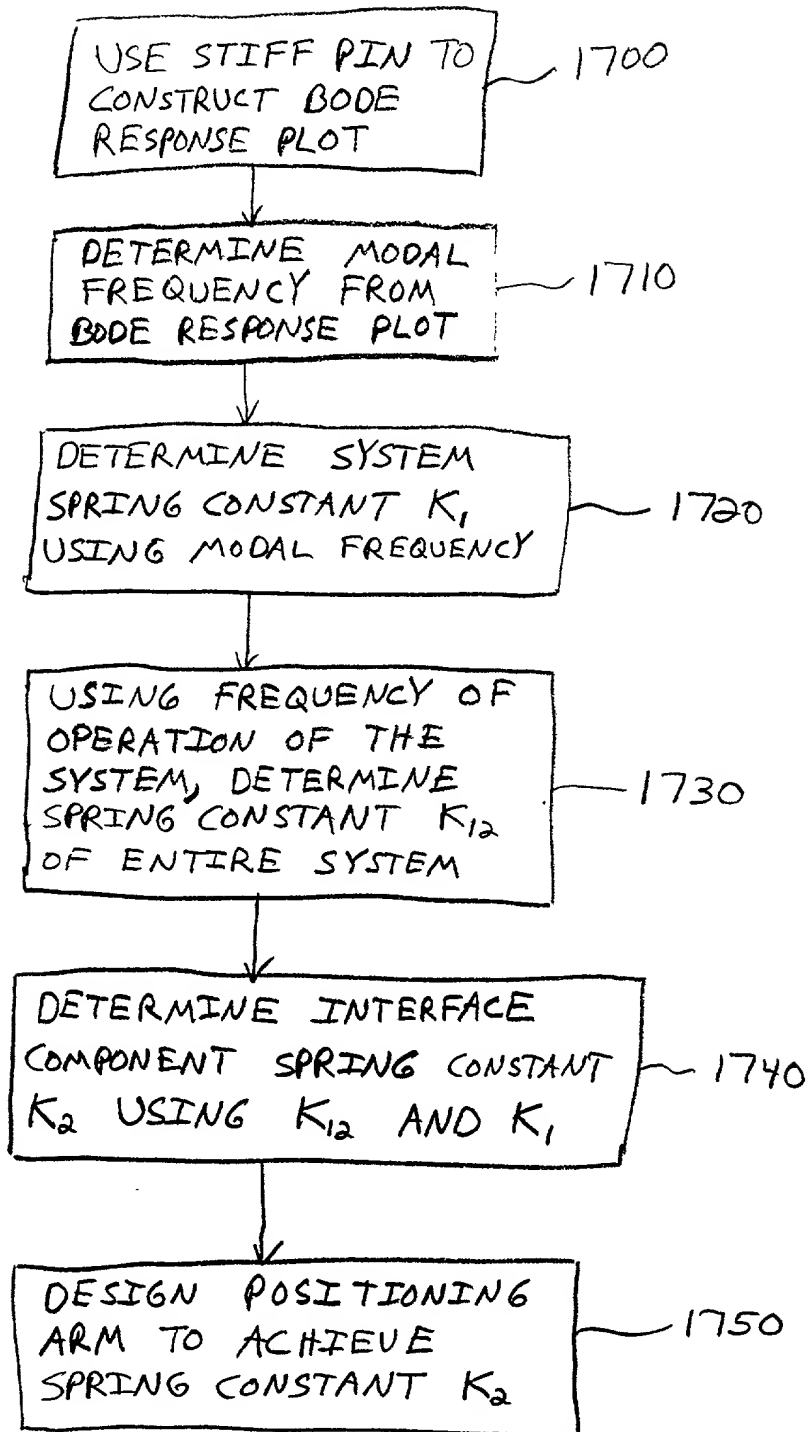


Figure 16